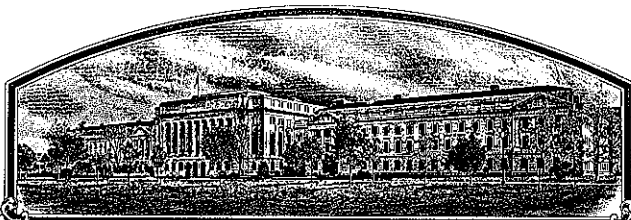


No.

9800350



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Sakata Seed Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ZINNIA

'Profusion White'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fourteenth day of April, in the year of our Lord two thousand.

Attest:

Ann M. Lusk
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

John H. Hulme
Secretary of Agriculture

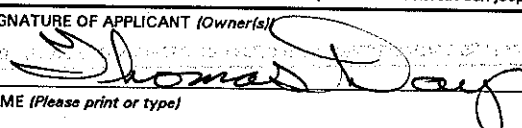

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER		3. VARIETY NAME	
Sakata Seed Corporation		Profusion White		Profusion White JMS 11/29/99	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY PVPO NUMBER 9800350	
2-7-1 Nakamachidai Tsuzuki-Ku Yokohama Japan 224		(408) 778-7758			
7. GENUS AND SPECIES NAME		8. FAMILY NAME (Botanical)		FILING DATE	
Zinnia species cross		Compositae		7-23-98	
9. CROP KIND NAME (Common name)		10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)		FILING AND EXAMINATION FEE:	
Zinnia		Corporation		\$ 2450.00	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION		DATE	
Yokohama, Japan		December 11, 1942 1914		5/14/98	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		14. TELEPHONE (include area code)		CERTIFICATION FEE:	
Thomas Day Gary Whiteaker Sakata Seed Am., Inc. 18095 Serene Drive Morgan Hill, CA 95037 U.S.A.		408-778-7758		\$ 300.00	
15. FAX (include area code)		16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		DATE	
408-778-1030		<input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository) <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)		3/3/2000	
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)		18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input checked="" type="checkbox"/> NO (If "no," go to item 20)		<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?		21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
<input type="checkbox"/> YES (If "yes," give names of countries and dates) <input checked="" type="checkbox"/> NO		The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.		SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
 NAME (Please print or type) Thomas Day		 NAME (Please print or type) Thomas Day			
CAPACITY OR TITLE		DATE		CAPACITY OR TITLE	
Q.A. Coordinator		4/27/98			

Sakata Seed America
Zinnia 'Profusion White'
PVP Application Number: 9800350

Exhibit A, October 3, 1997 (THD)
revised November 24, 1999 (THD)

In 1986, 19 strains of diploid interspecific crosses between *Zinnia angustifolia* and *Zinnia elegans* were received from Dr. Dennis P. Stimart at the University of Maryland. The 19 strains were sown in May and evaluated later that year. The interspecific hybrids 822-11C and 8411-7C were intercrossed (female and male, respectively) to produce F_1 seed. Line 822-11C was a cross between a *Zinnia angustifolia* line known only as White and *Zinnia elegans* variety 'Orange King'. Line 8411-7C was a cross between a *Zinnia angustifolia* line known only as Orange and *Zinnia elegans* variety 'Thumbelina Mini-Salmon'.

In 1987 the F_1 seed was sown and three plants were selected and intercrossed for production of F_2 seed. In 1988 the F_2 seed was sown, producing plants with flowers of several colors and shades. Three plants with compact plant habit, orange colored flowers and prolific blooming were selected and intercrossed to produce F_3 seed.

During 1989 and 1990, successive generations were sown with selection and selfing of individual plants to fix and stabilize traits.

In 1991, the line 90-ZI-53A, which possessed dwarf habit and mid-large sized scarlet orange flowers, was crossed with ZI-6A8A-6C, which possessed semi-dwarf habit and mid-large sized pink flowers, to produce F_1 seed.

In 1992, three F_1 plants with white flowers were selected and intercrossed for production of F_2 seed. In 1993, the F_2 seed was sown and three plants were selected and intercrossed to produce F_3 seed.

During 1994 and 1995 selfing was performed on individual plant selections to produce F_4 and F_5 seed.

In 1996 the stable line 2B-1B-42M, now named 'Profusion White', was selected for having pale white flowers, prolific blooming and compact habit. F_6 seed was made from this line by open pollination in 1996. F_7 seed of 'Profusion White' was made in 1997 seed of the F_6 generation.

In 1997 and 1998, the F_6 and F_7 seed was sown, respectively, and the resulting plants observed for trait stability. 'Profusion White' was observed to be uniform and stable in the two generations, F_6 and F_7 . Additionally it was determined that the new variety lacks genetic variants.

Sakata Seed America
Zinnia 'Profusion White'
PVP Application Number: 9800350

Exhibit B, October 3, 1997 (THD)
revised November 24, 1999 (THD)

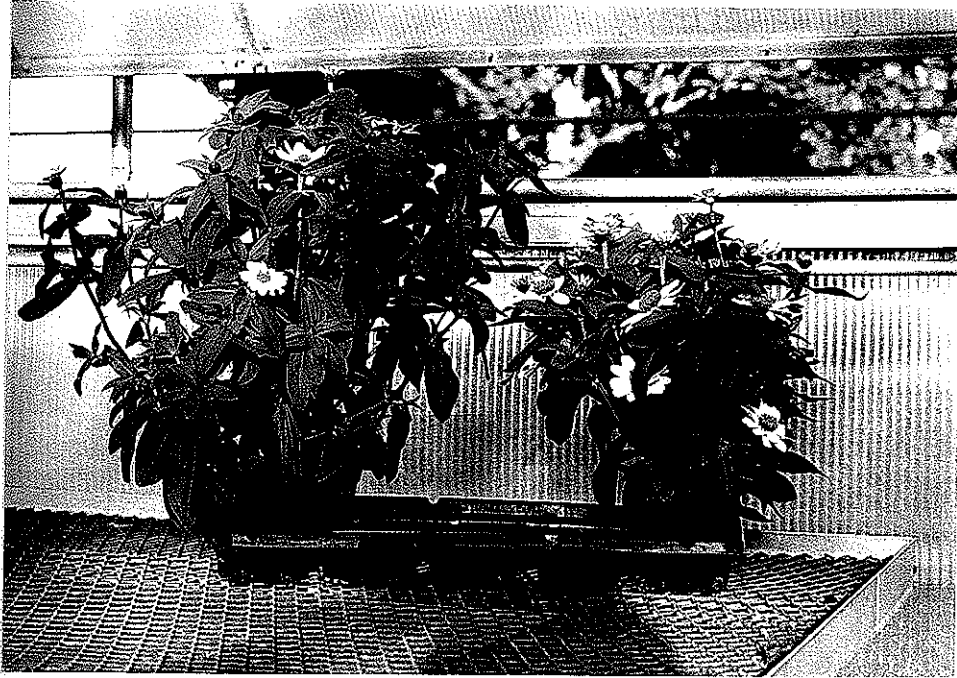
To the best of our knowledge, 'Profusion White' most clearly resembles 'Pinwheel White'. However, 'Profusion White' differs from 'Pinwheel White' in at least one characteristic. 'Profusion White' has a dwarfed plant habit and produces its first flower at a height of about 16 centimeters while 'Pinwheel White' produces its first flower at a height of about 34 centimeters. The accompanying Exhibit D shows data from two trials conducted in Salinas, California. In both trials the difference in height to top of first flower was statistically significant at the 95% confidence level. Plots showing Rankit values (Bliss, 1967) versus the data support the assumption that the data is approximately normally distributed.

Attached are photos of the new variety and the comparison variety showing their significant difference in height of first flower. These photos were taken from a trial done in Salinas, California during the 1999 summer. The plants were grown in four-inch pots.

Bliss, C.I. Statistics in Biology, vol. 1. 1967. McGraw Hill

Exhibit B, Photographs

Note significant difference in height of first flower.



'Pinwheel White' (left) and 'Profusion White' (right)



'Pinwheel White' (left) and 'Profusion White' (right)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Zinnia)

OBJECTIVE DESCRIPTION OF VARIETY
ZINNIA (ZINNIA SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Sakata Seed Corporation

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

2-7-1 Nakamachidai
Tsuzuki-Ku, Yokohama
Japan 224

FOR OFFICIAL USE ONLY

PVPO NUMBER

8000350

VARIETY NAME OR TEMPORARY DESIGNATION

Profusion White

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. SPECIES:

1 = ELEGANS 2 = LINEARIS 3 = HAGGEANA (*angustifolia*) 4 = SPECIES CROSS Z. angustifolia
x Z. elegans

2. PLOIDY:

1 = DIPLOID (24) 2 = TETRAPLOID (48) 3 = OTHER (Specify) _____

3. FLOWER TYPE:

1 = BUTTON (*Cherry Buttons, Thumbelina*) 2 = POMPON (*Scarlet Gem, White Gem*) 3 = DAHLIA (*Dream, Exquisite*)
4 = CRESTED, SCABIOSA (*Wind Witch*) 5 = CACTUS (*Blaze, Sunny Boy*) 6 = MEXICAN (*Old Mexico*)

4. PLANT:

DAYS FROM EMERGENCE TO FIRST FLOWER Season: 1 = SHORT, CONCENTRATED FLOWERING 2 = LONG, CONTINUOUS FLOWERING

NO. OF PRIMARY BRANCHES NO. OF SECONDARY BRANCHES NO. OF TERTIARY BRANCHES

Main Stalk:

NO. OF INTERNODES CM. LENGTH OF INTERNODE BETWEEN FIRST & SECOND NODES MM. DIAMETER BETWEEN FIRST & SECOND NODE

Habit: 1 = COMPACT 2 = SPREADING Habit: CM. WIDE Habit: CM. HIGH

1 = GLABROUS 2 = SPARSELY PUBESCENT 3 = PUBESCENT

5. LEAF:

Shape: 1 = LANCEOLATE 2 = OVATE 3 = ELLIPTIC MM. WIDE MM. LONG

Dorsal Surface: 1 = GLABROUS 2 = PUBESCENT Ventral Surface: 1 = GLABROUS 2 = PUBESCENT

6. FLOWERS:

CM. LENGTH OF CUT FLOWER (from head to first branch) AVERAGE NO. PER PLANT CM. DIAMETER OF HEAD

Stems: 1 = RIGID 2 = FLEXIBLE Stems: 1 = BRITTLE 2 = WIREY

Doubleness: 1 = SINGLE (*one row of rays*) 2 = SEMI-SINGLE (*several rows of rays*)
3 = SEMI-DOUBLE (*many rows of rays*) 4 = DOUBLE (*all rays*)

7. RAY PETALS:

1 = FLAT 2 = TWISTED 3 = CURLED 4 = SHAGGY 5 = QUILLED
6 = COMBINATION OR OTHER (Specify) _____

Dorsal Surface: } 1 = GLABROUS 2 = PUBESCENT Dorsal Surface: } 1 = DULL 2 = SHINY
 Ventral Surface: } Ventral Surface: }

APICES:

1 = ACUTE 2 = OBTUSE 1 = ENTIRE 2 = NOTCHED 3 = SPINED

JMS
11/29/99

Profusion White

9853250

8. COLOR OF RAYS: (Colors listed below apply to Monocolor and Color Patterns.)

☒ 01

MONOCOLOR

RHS 155C

Color Patterns for Bicolor or Multicolor:

Dorsal Side:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ventral Side:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dorsal Side:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ventral Side:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

APEX HALF BASE HALF BACK-GROUND COLOR STREAKS STRIPES

SPOTS BLOTCHES OTHER (Specify) _____

01 = WHITE 02 = CREAM 03 = PINK 04 = ROSE 05 = RED 06 = ORANGE 07 = GOLD 08 = BRONZE
09 = YELLOW 10 = GREEN 11 = LAVENDER 12 = SCARLET 13 = SALMON 14 = OTHER (Specify) _____

9. DISK FLORETS:

☒ 3

1 = ABSENT

2 = PRESENT, COVERED

3 = PRESENT, CONSPICUOUS

☒ 2

1 = NOT QUILLED

2 = QUILLED

☒ 09

Color: (Choose from colors in No. 9 above)

RHS 21C

10. ANTHOCYANIN: (1 = Absent, 2 = Present)

☒ 1

SEEDLINGS

☒ 2

STEMS

☒ 1

LEAVES

☒ 1

FLOWERS

11. SEEDS:

☒ 4

Yield:

1 = NONE

2 = POOR

3 = FAIR

4 = GOOD

☒ 5

MM. LONG

☒ 2

MM. WIDE

☒ 2

Color:

1 = TAN

2 = LIGHT BROWN

3 = DARK BROWN

☒ 300

MG. PER 100 SEEDS

12. DRIED RECEPTACLE (After seed removal):

☒ 4

Shape:

1 = FLAT

2 = DOME

3 = GLOBE

4 = CONE

☒ 8

MM. LENGTH

☒ 5

MM. DIAMETER AT BASE

13. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ 0

POWDERY MILDEW

☒ 0

MOSAIC

☒ 0

FUSARIUM WILT

☒ 0

ALTERNARIA LEAF SPOT

14. INDICATE VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Flower size		Plant size	
Flower type		Foliage size	
Flower color		Maturity	
Plant Habit			

REFERENCES:

1. Bodger Seed Company, LTD. The Zinnia and Its Uses. 1935.
2. Honeywell, E. R., 1970. The Zinnia. Purdue University Ext Service HO-104.
3. Metcalf, H. N. and J. N. Sharma. Germplasm Resources of the Genus Zinnia L. Econ. Bot. 25:169-181. 1971.
4. Weddle, Charles. The Elegant Zinnia. Nat. Hort. Mag. 24(2): 82-91. 1951.
5. Nickerson's or any recognized color fan should be used to determine the plant colors of the described variety.

COMMENTS:

PVP Application:

Sakata Seed America

Zinnia 'Profusion White'

Exhibit D

Height to top of first flower (cm.)

Location 1, inside greenhouse

Profusion	Pinwheel
17.00	35.00
13.00	37.00
16.00	42.00
17.50	37.00
17.00	35.50
14.00	33.00
17.00	38.00
13.00	37.00
14.00	38.00
16.00	34.00
18.00	37.00
18.00	32.00
13.00	26.00
17.00	37.00
	37.00
Mean	15.75
Std. Dev.	1.93

Location 2, outdoors

Profusion	Pinwheel
13.50	36.80
14.00	35.50
14.00	30.50
15.25	30.50
14.00	36.50
15.25	17.50
16.50	35.50
18.50	34.00
14.00	37.50
14.00	33.00
23.00	33.00
16.50	33.50
20.25	30.50
12.75	31.00
Mean	15.82
Std. Dev.	2.93

t-test 5.373E-15 (P<0.05)

t-test 4.475E-10 (P<0.05)

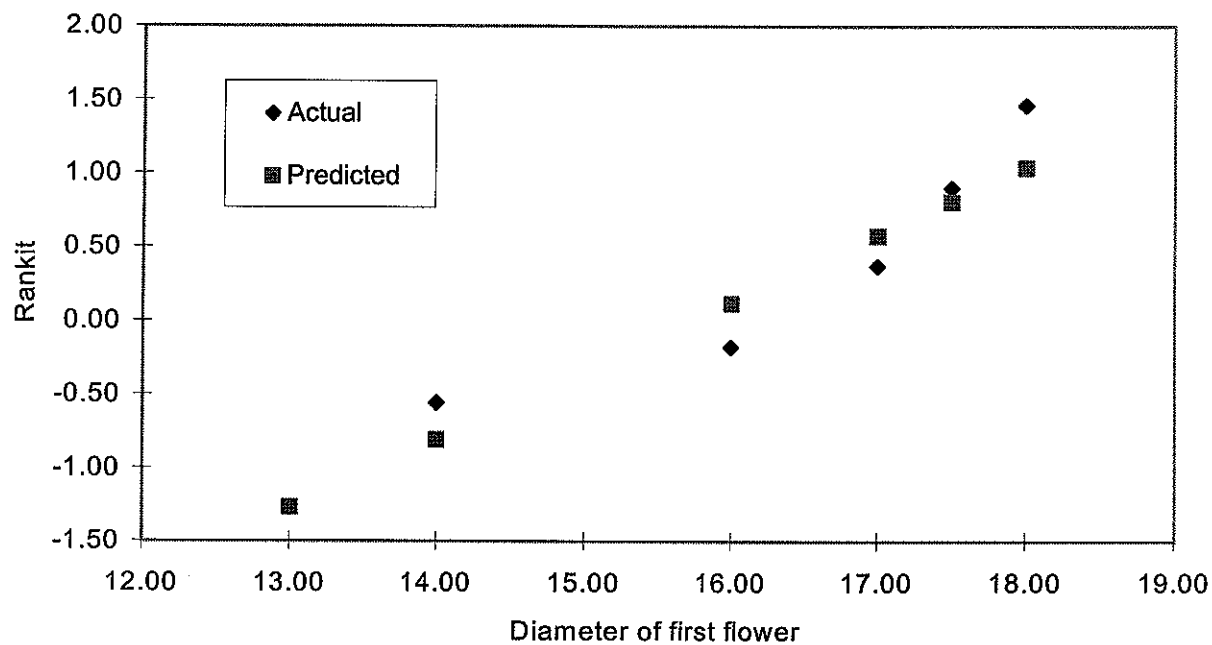
PVP Application:

Sakata Seed America

Zinnia 'Profusion White'

Exhibit D (Location 1 data)

Profusion Rankit test



Pinwheel Rankit test

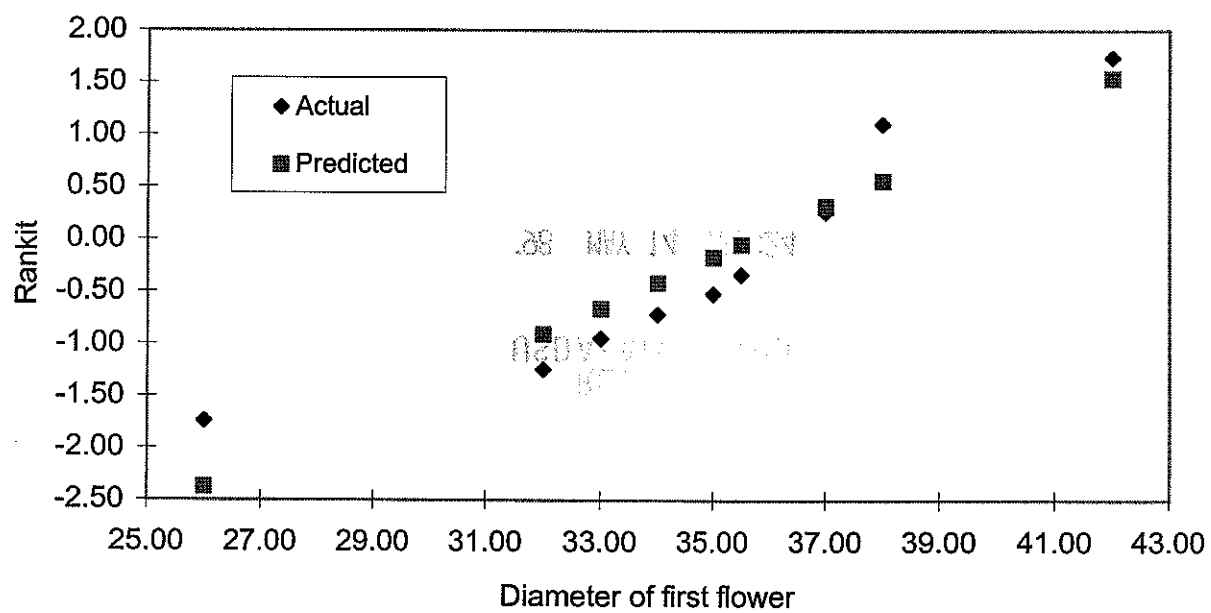


Exhibit D

FORM APPROVED: OMB NO. 40-R3822

UNITED STATES DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
 BELTSVILLE, MARYLAND 20705

EXHIBIT C
 (Zinnia)

OBJECTIVE DESCRIPTION OF VARIETY
 ZINNIA (ZINNIA SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Sakata Seed Corporation	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 2-7-1 Nakamachidai Tsuzuki-Ku, Yokohama Japan 224	PVPO NUMBER 9800850
	VARIETY NAME OR TEMPORARY DESIGNATION Pinwheel White

Place the appropriate number that describes the varietal character of this variety in the boxes below.
 Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. SPECIES:

1 = ELEGANS 2 = LINEARIS 3 = HAGGEANA (*angustifolia*) 4 = SPECIES CROSS Z. hybrida

2. PLOIDY:

1 = DIPLOID (24) 2 = TETRAPLOID (48) 3 = OTHER (Specify) _____

3. FLOWER TYPE:

1 = BUTTON (*Cherry Buttons, Thumbelina*) 2 = POMPON (*Scarlet Gem, White Gem*) 3 = DAHLIA (*Dream, Exquisite*)
 4 = CRESTED, SCABIOSA (*Wind Witch*) 5 = CACTUS (*Blaze, Sunny Boy*) 6 = MEXICAN (*Old Mexico*)

4. PLANT:

DAYS FROM EMERGENCE TO FIRST FLOWER Season: 1 = SHORT, CONCENTRATED FLOWERING 2 = LONG, CONTINUOUS FLOWERING

NO. OF PRIMARY BRANCHES NO. OF SECONDARY BRANCHES NO. OF TERTIARY BRANCHES

Main Stalk:

NO. OF INTERNODES CM. LENGTH OF INTERNODE BETWEEN FIRST & SECOND NODES MM. DIAMETER BETWEEN FIRST & SECOND NODE

Habit: 1 = COMPACT 2 = SPREADING Habit: CM. WIDE Habit: CM. HIGH

1 = GLABROUS 2 = SPARSELY PUBESCENT 3 = PUBESCENT

5. LEAF:

Shape: 1 = LANCEOLATE 2 = OVATE 3 = ELLIPTIC MM. WIDE MM. LONG

Dorsal Surface: 1 = GLABROUS 2 = PUBESCENT Ventral Surface: 1 = GLABROUS 2 = PUBESCENT

6. FLOWERS:

CM. LENGTH OF CUT FLOWER (from head to first branch) AVERAGE NO. PER PLANT CM. DIAMETER OF HEAD

Stems: 1 = RIGID 2 = FLEXIBLE Stems: 1 = BRITTLE 2 = WIREY

Doubleness: 1 = SINGLE (*one row of rays*) 2 = SEMI-SINGLE (*several rows of rays*)
 3 = SEMI-DOUBLE (*many rows of rays*) 4 = DOUBLE (*all rays*)

7. RAY PETALS:

1 = FLAT 2 = TWISTED 3 = CURLED 4 = SHAGGY 5 = QUILLED
 6 = COMBINATION OR OTHER (Specify) _____













Dorsal Surface: } 1 = GLABROUS 2 = PUBESCENT Dorsal Surface: } 1 = DULL 2 = SHINY
 Ventral Surface: } Ventral Surface: }

APICES:

1 = ACUTE 2 = OBTUSE 1 = ENTIRE 2 = NOTCHED 3 = SPINED

JMS
11/29/99

01 MONOCOLOR RHS 155D

Dorsal Side: 
 Ventral Side: 
 APEX HALF
 
 BASE HALF
 
 BACK-GROUND COLOR
 
 STREAKS
 
 STRIPES
 
 Dorsal Side: 
 Ventral Side: 
 SPOTS
 
 BLOTCHES
 
 OTHER (Specify) _____
 

9. DISK FLORETS:

09 Color: (Choose from colors in No. 9 above)

RHS 21 A

10. ANTHOCYANIN: (1 = Absent, 2 = Present)

	SEEDLINGS		STEMS		LEAVES		FLOWERS
---	-----------	---	-------	---	--------	---	---------

11. SEEDS:

4 Yield: 1 = NONE 2 = POOR 3 = FAIR 4 = GOOD **5** MM. **3** MM. WIDE
3 Color: 1 = TAN 2 = LIGHT BROWN 3 = DARK BROWN **260** MG. PER 100 SEEDS

12. DRIED RECEPTACLE (After seed removal):

4 Shape: 1 = FLAT 2 = DOME 3 = GLOBE 4 = CONE 10 mm CM. LENGTH 8 mm CM. DIAMETER AT BASE

13. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ POWDERY MILDEW ☐ MOSAIC ☐ FUSARIUM WILT ☐ ALTERNARIA LEAF SPOT

14. INDICATE VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Flower size		Plant size	
Flower type		Foliage size	
Flower color		Maturity	
Plant Habit			

REFERENCES:

1. Bodger Seed Company, LTD. The Zinnia and Its Uses. Bul. No. 1 19 pp. 1935.
2. Honeywell, E. R., 1970. The Zinnia. Purdue University Ext Service HO-104.
3. Metcalf, H. N. and J. N. Sharma. Germplasm Resources of the Genus Zinnia L. Econ. Bot. 25:169-181. 1971.
4. Weddle, Charles. The Elegant Zinnia. Nat. Hort. Mag. 24(2): 83-91. 1945.
5. ~~Nickerson's or any recognized color fan should be used to determine the plant colors of the described variety.~~

COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Sakata Seed Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER Profusion White	3. VARIETY NAME Profusion White JMS 11/29/96
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 2-7-1 Nakamachidai Tsuzuki-Ku, Yokohama Japan 224	5. TELEPHONE (include area code) (408) 778-7758	6. FAX (include area code) (408) 778-1030
7. PVPO NUMBER 9800250		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country Japan <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
10. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____ <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country _____ <input type="checkbox"/> YES <input type="checkbox"/> NO		
11. Additional explanation on ownership (If needed, use reverse for extra space): The breeders are employees of Sakata Seed Corporation. By agreement between the employees and Sakata, all rights to any inventions are assigned to Sakata Seed Corporation.		

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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